

STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY  
APPLICATION FOR CHANGE/TRANSFER  
REPORT OF EXAMINATION  
TO APPROPRIATE PUBLIC WATERS OF THE STATE OF WASHINGTON

- ☐ Surface Water (Issued in accordance with the provisions of Chapter 117, Laws of Washington for 1917, and amendments thereto, and the rules and regulations of the Department of Ecology.)
- ☒ Ground Water (Issued in accordance with the provisions of Chapter 263, Laws of Washington for 1945, and amendments thereto, and the rules and regulations of the Department of Ecology.)

PRIORITY DATE April 24, 1992	APPLICATION NUMBER G3-29322	PERMIT NUMBER G3-29322	CERTIFICATE NUMBER
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NAME Public Utility District No. 1 of Stevens County			
ADDRESS (STREET) P.O. Box 592	(CITY) Loon Lake	(STATE) WA	(ZIP CODE) 99148-0592

COPY

PUBLIC WATERS TO BE APPROPRIATED

SOURCE Twelve (12) wells
TRIBUTARY OF (IF SURFACE WATERS)

MAXIMUM CUBIC FEET PER SECOND	MAXIMUM GALLONS PER MINUTE 2000	MAXIMUM ACRE FEET PER YEAR 1200
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QUANTITY, TYPE OF USE, PERIOD OF USE  
2000 gallons per minute, 1200 acre-feet per year, each year, continuously, for municipal supply.

**"The total amount of water authorized for withdrawal under existing rights for the Suncrest/Long Lake(Stonelodge)Water System is limited to 7,942 gallons per minute; 3,037.01 acre-feet per year, continuously, for municipal supply."**

LOCATION OF DIVERSION/WITHDRAWAL

APPROXIMATE LOCATION OF DIVERSION—WITHDRAWAL

Well #1 (S01, Suncrest Drive well #1) – Tract A, Block 3, of Suncrest Addition, being within Gov't Lot 3 of Sec. 26, T. 27 N., R. 41 E.W.M. 4000 feet south and 3500 feet west from the NE corner of Section 26.

Well #2 (S02 Suncrest Drive well #2) – Tract A, Block 3, of Suncrest Addition, being within Gov't Lot 3 of Sec. 26, T. 27 N., R. 41 E.W.M. 4025 feet south and 3450 feet west from the NE corner of Section 26.

Well #3 (S03 Suncrest Park well) – SE¼SE¼ of Sec. 22, T. 27 N., R. 41 E.W.M. 100 feet north and 1000 feet west from the SE corner of Section 22.

Well #4 (S04 Lakeridge/Shore Road well) – Block 1 of Lakeridge 4<sup>th</sup> Addition, being within the SW¼SE¼ of Sec. 26, T. 27 N., R. 41 E.W.M. 400 feet north and 75 feet east from the S¼ corner of Section 26.

Well #5 (S05 Lakeridge/Wynott Drive well) – Block 4 of Lakeridge 4<sup>th</sup> Addition, being within the NE¼NE¼ of Sec. 35, T. 27 N., R. 41 E.W.M. 170 feet south and 930 feet west from the NE corner of Section 35.

Well #6 (S07 Suncrest Booster Station) – NW¼SE¼ of Sec. 26, T. 27 N., R. 41 E.W.M. 1600 feet north and 2300 feet west from the SE corner of Section 26.

Well #7 (S08 Suncrest 16" Park well) – NE¼NE¼ of Sec. 27, T. 27 N., R. 41 E.W.M. 450 feet south and 500 feet west from the NE corner of Section 27.

Well #8 (S09 Suncrest Meadows well - to be drilled) – NW¼NE¼ of Sec. 22, T. 27 N., R. 41 E.W.M. Distances to be determined.

Well #9 (S10 Suncrest Meadows well – to be drilled) – NE¼NW¼ of Sec. 22, T. 27 N., R. 41 E.W.M. Distances to be determined.

Well #10 (S02 Villier Terrace well) – N½N½ of Gov't Lots 3 & 4, being within the NE¼SW¼ of Sec. 16, T. 27 N., R. 41 E.W.M. 100 feet south and 1320 feet east from the W¼ corner of Section 16.

Well #11 (S04 Lake Forest well) – Lot 14, Block 1 of Lake Forest Addition, being within the SE¼SE¼ of Sec. 8, T. 27 N., R. 41 E.W.M. 100 feet north and 200 feet west from the SE corner of Section 8.

Well #12 (S05 Stonelodge Addition well) – NE¼NW¼ of Sec. 8, T. 27 N., R. 41 E.W.M. 1100 feet south and 800 feet west from the N¼ corner of Section 8.

LOCATED WITHIN (SMALLEST LEGAL SUBDIVISION) (SEE ABOVE)	SECTION	TOWNSHIP N. 27	RANGE, (E. OR W.) W.M. 41 E.	W.R.I.A. 54	COUNTY <del>Spokane</del> Stevens
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RECORDED PLATTED PROPERTY

LOT	BLOCK	OF (GIVE NAME OF PLAT OR ADDITION)
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LEGAL DESCRIPTION OF PROPERTY ON WHICH WATER IS TO BE USED

Area served by Public Utility District No. 1 of Stevens County. The place of use of this water right shall be consistent with the service area map contained within the most recently approved water system plan (including amendments).



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**DESCRIPTION OF PROPOSED WORKS**

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Twelve (12) wells, pumps, distribution system, reservoirs.

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**DEVELOPMENT SCHEDULE**

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BEGIN PROJECT BY THIS DATE:	COMPLETE PROJECT BY THIS DATE:	WATER PUT TO FULL USE BY THIS DATE:
Started	August 1, 2008	August 1, 2014

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**REPORT**

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**BACKGROUND**

An application for change/transfer was submitted by Public Utility District No. 1 of Stevens County to the Department of Ecology on July 8, 2002. The PUD proposes to integrate its existing water rights and wells in the "Suncrest" and "Long Lake/Stonelodge" areas. Under this application, the PUD proposes to change one point of withdrawal and add five (5) points of withdrawal under Ground Water Permit G3-29322P. A notice of application was duly published in accordance with RCW 90.03.280 and no protests were received.

This application is not categorically exempt from the provisions of the State Environmental Policy Act (SEPA) of 1971, Chapter 43.21C RCW. A SEPA Determination of Non-Significance was issued by the Department of Ecology on January 5, 2004.

**INVESTIGATION**

In considering the proposed change, the investigation included, but was not limited to, research and review of (1) appropriate rules and statutes; (2) PUD water rights for "Suncrest" and "Long Lake/Stonelodge" and other water rights/claims/applications in the vicinity; (3) water well reports; (4) USGS topographic maps; (5) discussions with Department of Ecology regional program staff, including review by Ecology hydrogeologists. A field investigation was conducted by Gene Drury on December 17, 2003 with Jim Carpenter, Water Foreman for Public Utility District No. 1 of Stevens County. The water rights under this application serve water to what is known as the Suncrest and Stonelodge developments in Stevens County which are located on the northeast side of Long Lake (Spokane River).

**PUD WATER RIGHT PROPOSED FOR CHANGE****Ground Water Permit G3-29322P**

Recorded Name: Public Utility District No. 1 of Stevens County  
Priority Date: April 24, 1992  
Instantaneous Quantity - Qi: 2000 gallons per minute  
Annual Quantity - Qa: 1200 acre-feet per year  
Purpose of Use: Municipal supply  
Period of Use: Continuous  
Source: Seven (7) wells  
Points of Withdrawal: (See permit for well locations)  
Place of Use: Area served by Public Utility District No. 1 of Stevens County

The PUD has proposed changes to all of its Suncrest and Long Lake (Stonelodge) water rights. The water rights are as follows: Suncrest water rights include Ground Water Certificates Nos. 6560-A, G3-00064C, G3-22824C, G3-24060C, G3-24901C, G3-25792C, G3-26469C, Ground Water Permits Nos. G3-29322P and G3-29323P. Long Lake (Stonelodge) water rights include Ground Water Certificates Nos., G3-24992C, G3-25481C, G3-27491C and Ground Water Permits Nos. G3-29326P and G3-29580P. Each of these applications will all have decisions rendered based on their own respective findings.



**WATER RIGHTS AT SUNCREST & LONG LAKE (STONELODGE)**

SYSTEM	WATER RIGHT	GPM	AF/YR
Suncrest	6560-A	42	5
Suncrest	G3-00064C	200	6.72
Suncrest	G3-22824C	300	106
Suncrest	G3-24060C	900	266.56
Suncrest	G3-24901C	190	207
Suncrest	G3-25792C	1375	201.45
Suncrest	G3-26469C	(500 supplemental)*	(180 partial suppl.)*
Suncrest	G3-29322P	2000	1200
Suncrest	G3-29323P	1000	----
	<b>subtotal:</b>	<b>6007</b>	<b>2055.01</b>
Long Lake	G3-24992C	135	43
Long Lake	G3-25481C	330	27
Long Lake	G3-27491C	70	112
Long Lake	G3-29326P	400	645
Long Lake	G3-29580P	1000	155
	<b>subtotal</b>	<b>1935</b>	<b>982</b>
	<b>TOTAL:</b>	<b>7942</b>	<b>3037.01</b>

\*Certificate G3-26469C was issued less that amount used under 6560-A, G3-00064C & G3-22824C. Therefore, G3-26469C only authorizes an additional 62.28 acre-feet and no additional gpm.

Water for the Suncrest system is currently provided by seven (7) drilled wells while the Long Lake/Stonelodge water is provided by three (3) drilled wells. The PUD is proposing to integrate these two water systems. The Suncrest water rights each include the seven wells and were authorized to be integrated in Ecology's 1995 Change Reports of Examination. These 1995 changes decisions identified two wells within the SE $\frac{1}{4}$ SE $\frac{1}{4}$  of Sec. 22 but only one well actually exists at this location (the Suncrest Park Well S03). The PUD is now proposing to move this incorrect well location to an existing Suncrest Park Well #7 (S08) located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$  of Sec. 27, T. 27 N., R. 41 E.W.M. In addition to this correction, the PUD proposes to construct two new points of withdrawal under these most recent change applications (S09 and S10, the "Suncrest Meadows" wells). The Suncrest and Long Lake/Stonelodge water systems are not physically connected at this time however, the PUD is planning to extend the mainlines and connect them in 2005. All wells are located adjacent to the Spokane River and constructed into the sands and gravel aquifer. The wells are further described as follows:

**"SUNCREST" WELLS**

PARAMETER	WELL #1	WELL #2	WELL #3	WELL #4	WELL #5	WELL #6	WELL #7
Source #	S01	S02	S03	S04	S05	S07	S08
Unique Well ID#	ACW875	ACW876	ABR223	ACW877	No tag	ACW874	No tag
Year drilled	1962	1976	1978	1979	1971	1995	1995
Depth	198'	182'	254'	136'	181'	320'	318'
Diameter	14"	8"	12"	10"	12"	14"	16"
Casing	155'	176'	218'	136'	167'	290'	318'
Perforated	screens	screens	screens	screens	screens	screens	screens
SWL	6.1'	90'	60'	59'	112'	153'	75'
Well head elevation	1600'	1600'	1590'	1580'	1575'	1690'	1600'
GPM	700	365	625	450	400	900	2100
Pump HP	60	30	125	50	50	150	350*
Pump Type	VT	Sub	VT	Sub	Sub	VT	VT

VT = Vertical Shaft Turbine pump

Sub = Submersible pump

\* to be installed in 2004



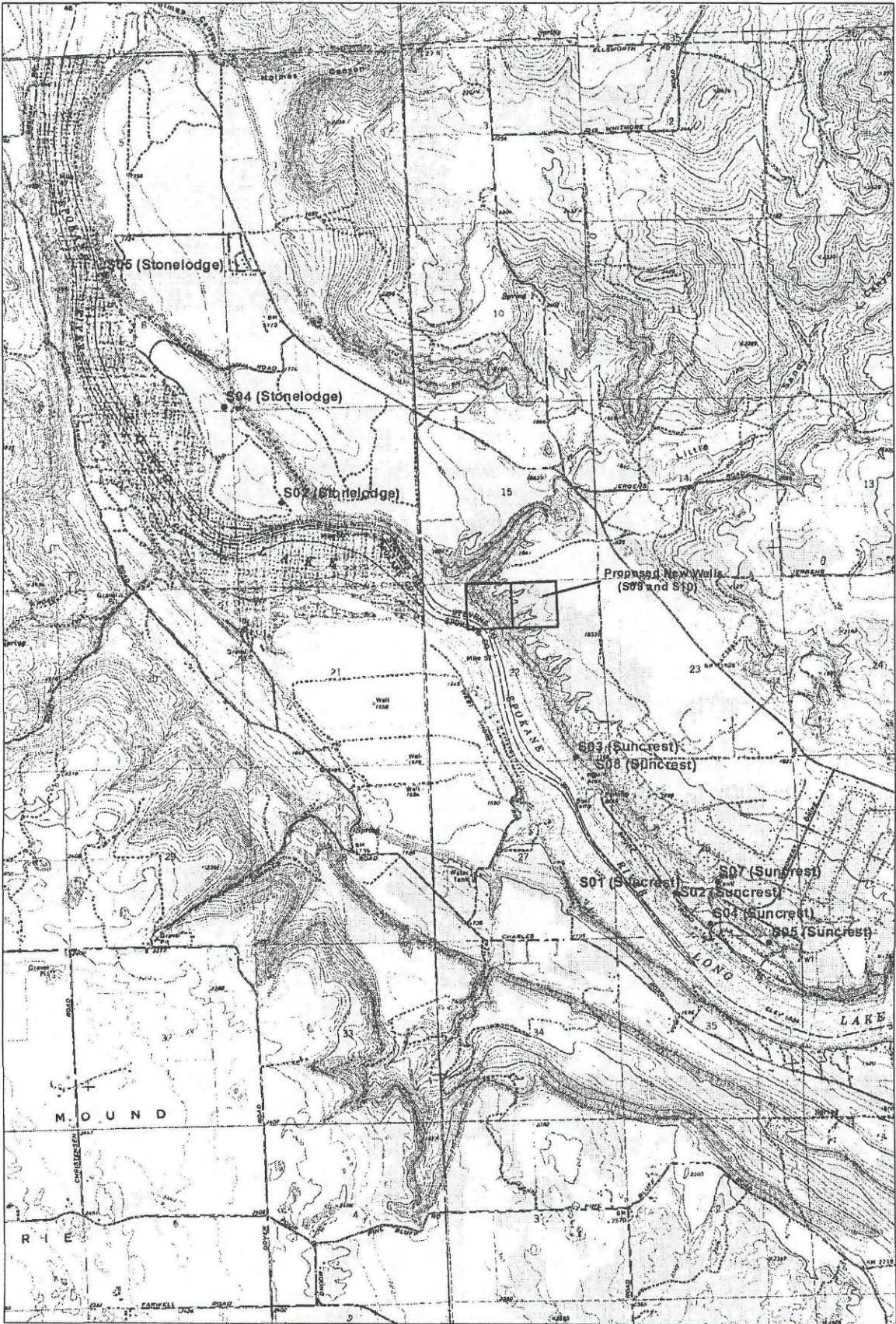
“LONG LAKE/STONELODGE” WELLS

PARAMETER	WELL #1	WELL #2	WELL #3
Source #	S02	S04	S05
Unique Well ID#	ABR776	ACW872	ACW873
Year drilled	1978	1993	1969
Depth	143'	94'	197'
Diameter	8"	12"	8"
Casing	127'	94'	178'
Perforated	screens	screens	screens
SWL	45'	22'	70'
Well head elevation	1590'	1580'	1580'
GPM	380	500	60
Pump HP	30	60	5
Pump Type	Sub	Sub	Sub

VT = Vertical Shaft Turbine pump

Sub = Submersible pump

Steven's County PUD #1 (Suncrest/Stonelodge) Wells



Township 27 North, Range 41 E.W.M.



EVALUATION OF THE WATER RIGHT & HISTORIC WATER USE

Ground Water Permit G3-29322P was issued to the PUD on November 10, 1994. This permit authorized 2000 gallons per minute and 1200 acre-feet per year for municipal supply. The permit development schedule allowed for three years for filing of the Proof of Appropriation (PA) due on October 1, 1997. G3-29322P authorized a total of seven (7) wells, five of which were existing and two proposed new points of withdrawal, wells S07 and S08. The two new wells were constructed by Holman Drilling in 1995 under this permit and Ground Water Permit G3-29323P. Under this permit, the PUD requested an extension on the Completion of Construction to October 1, 2014, which was granted by Ecology in 1996.

The wells used under this permit provide water to the Suncrest system. Four reservoirs are currently used in this area and the PUD proposes a fifth reservoir for the two integrated systems. The PUD uses all seven of the authorized wells for Suncrest and has used approximately 1689 acre-feet of its authorized 2055.01 acre-feet of water under existing rights for municipal water supply. The pump in well S07 was just recently reworked and was out of service at the time of this exam. The well is a primary well used by the PUD. The pump was pulled from well S08 and the PUD was designing a new pump house for this well. Well S08 was used in the summer of 2003. In addition to the Suncrest water rights, the PUD has a total of 982 acre-feet per year authorized under existing rights at the Long Lake (Stonelodge) water system. The PUD has used approximately 320 acre-feet from the Long Lake system.

The PUD is currently in the process of updating its comprehensive water system plan (1997) for the 16 water systems it operates. The new plan is due to be completed in June of 2004. Water use data for years 2000, 2001 and 2002 was provided by Mr. Richard C.R. Price, P.E. from the PUD:

WATER PUMPED			
SYSTEM	YR 2000	YR 2001	YR 2002
Suncrest	1688.8 af (550.3 mg)	1495.5 af (487.3 mg)	1418.1 af (462.1 mg)
Long Lake (Stonelodge)	276.5 af (90.1 mg)	290.3 af (94.8 mg)	320.4 af (104.4 mg)

Hydrogeologic Analysis

Applications for change of water right permits and certificates are governed by RCW 90.44.100, which states in part that: the holder of a valid right to withdraw public ground waters may, without losing his priority of right, construct wells at a new location in substitution for, or in addition to, those at the original location, or he may change the manner or the place of use of the water. Such amendment shall be issued by the Department only on the conditions that; (1) the additional or substitute well or wells shall tap the same body of public ground water as the original well or wells; (2) use of the original well or wells shall be discontinued upon construction of the substitute well or wells; (3) the construction of an additional well or wells shall not enlarge the right conveyed by the original permit or certificate; and (4) other existing rights shall not be impaired. The Department may specify an approved manner of construction and shall require a showing of compliance with the terms of the amendment.

The existing PUD wells in the Suncrest and Stonelodge areas are all constructed into the glacial sands, clays and gravel and produce water from the local water table which is partially controlled by changes in elevation to the Long Lake Reservoir. The wells range in depth from 94 feet to 320 feet and produce quantities up to 3,000 gallons per minute. All of these wells withdraw water from the same body of public ground water. The proposed new two points of withdrawal would be constructed between the two water systems and within the NE¼NW¼ and NW¼NE¼ of Sec. 22, T. 27 N., R. 41 E.W.M. (see above map). To remain in the same body, these proposed new wells must be completed into and produce water from unconsolidated sands and gravels. The Department of Natural Resources 1:100,000 scale geologic map for this area shows basement rock and basalt exposed at land surface to the east and north of the proposed locations. The applicant can not complete these new wells in aquifers (if present) in either of these rock types as this would not be from the same body of public groundwater. The density of well logs in this area is too low to predict if an unconsolidated aquifer is present at the proposed locations.

Impairment Analysis

“Impair” or “impairment” means to 1) adversely impact the physical availability of water for a beneficial use that is entitled to protection, including earlier filed applications, and/or 2) to prevent the beneficial use of the water to which one is entitled, and/or 3) to adversely affect the flow of a surface water course at a time when the flows are at or below instream flows levels established by rule (POL-1200); and/or 4) degrade the quality of the source to the point that water is unsuitable for use by existing water right holders (WAC 173-150). Demonstration of impairment would require evidence of a substantial and lasting or frequent impact reflecting such conditions.

A review of Ecology records was conducted for existing water rights, permits, applications and claims in the vicinity of the new points of withdrawal. The search found no existing rights in the area which would be impaired through approval of this application for change.



**FINDINGS**

When considering an application for change to a water right, Ecology must determine that the proposed change can be made without detriment or injury to existing water rights. Factors considered when determining potential impact include the following:

**No Impairment to Existing Rights**

The PUD wells have been in use for many years. There has been no documented history of pumping interference between other existing wells in this area, and it is not anticipated that the proposed new wells would cause any impairment to existing water rights.

**No Detriment to the Public Welfare**

There has been no public expression of protest or concern regarding the subject proposal, and no findings through this investigation indicate that there would be any detrimental impact to the public welfare through issuance of the proposed change.

**No Enhancement of the Original Right**

No withdrawal of water over and above what has been historically put to beneficial use and/or originally authorized under existing rights will be allowed through approval of this change.

**Same Source of Water**

The ground water withdrawn from all well locations is considered to be from the same body of public water.

**CONCLUSION**

It is the conclusion of this examiner that, in accordance with Chapters 90.03 and 90.44 RCW, this application will not enlarge the water right originally authorized for beneficial use, nor will it impair existing rights or be detrimental to the public welfare.

**RECOMMENDATIONS**

The applicant's request to change one (1) POW and add five (5) POW's under Ground Water Permit G3-29322P is approved, subject to the following provisions:

"The total amount of water authorized for withdrawal under existing rights for the Suncrest/Long Lake(Stonelodge)Water System is limited to 7,942 gallons per minute; 3,037.01 acre-feet per year, continuously, for municipal supply."

The development schedule under this change authorization may be re-evaluated and extended based on current information contained in an updated comprehensive water system plan approved by Washington State Department of Health.

"The place of use of this water right shall be consistent with the service area map contained within the most recently approved water system plan (including amendments)."

An approved measuring device shall be installed and maintained for each of the sources identified herein in accordance with the rule "Requirements for Measuring and Reporting Water Use", Chapter 173-173 WAC. Water use data shall be recorded weekly and maintained by the property owner for a minimum of five years, and shall be promptly submitted to Ecology upon request.

The rule above describes the requirements for data accuracy, device installation and operation, and information reporting. It also allows a water user to petition Ecology for modifications to some of the requirements. Installation, operation and maintenance requirements are enclosed as a document entitled "Water Measurement Device Installation and Operation Requirements".

Department of Ecology personnel, upon presentation of proper credentials, shall have access at reasonable times, to the records of water use that are kept to meet the above conditions, and to inspect at reasonable times any measuring device used to meet the above conditions.

"Any future pump test data for the new well shall be submitted as it is obtained to the Department of Ecology."

"The amount of water granted is a maximum limit that shall not be exceeded and the water user shall be entitled only to that amount of water within the specified limit that is beneficially used and required."

"This authorization to make use of public waters of the State is subject to existing rights, including any existing rights held by the United States for the benefit of Indians under treaty or otherwise."

"Nothing in this authorization shall be construed as satisfying other applicable federal, state, or local statutes, ordinances, or regulations."



"All water wells constructed within the State shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells)."

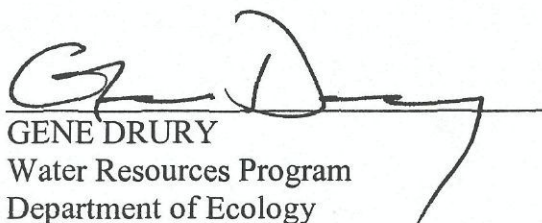
"Use of water under this authorization shall be contingent upon the water right holder's utilization of up to date water conservation practices and maintenance of efficient water delivery systems consistent with established regulation requirements and facility capabilities."

"The installation of an access port, described in Ground Water Bulletin #1, shall be required prior to issuance of a final certificate of water right. In addition, an airline and pressure gauge shall be installed and maintained in operating condition. The pressure gauge shall be equipped with a standard tire valve and placed in an accessible location. The airline shall extend from land surface to the top of the pump bowls and the total airline length shall be reported to the Department of Ecology upon completion of the pump system."

"A well log of the completed well shall be submitted by the driller to the Department of Ecology within thirty (30) days of completion of this well. This well log shall be complete and all information concerning the static water level in the completed well in addition to any pump test data shall be submitted as it is obtained."

"A certificate of water right will not be issued until a final examination is made."

Signed at Spokane, Washington this 26<sup>th</sup> day of March, 2004

  
GENE DRURY  
Water Resources Program  
Department of Ecology

GD:md

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